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Practitioner's Docket No. MPI00-343P1RRCEM

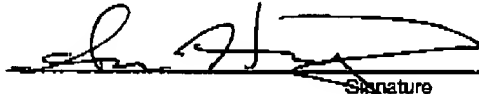
PATENT

Certificate of Transmission under 37 CFR 1.8

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Submitted herewith:

Fee Address Indication Form	1 page
Statement under 37 CFR 3.73(b)	1 page
Notice of Recordation of Assignment Document	1 page
Recordation Cover Sheet	1 page
Assignment from Inventors to Millennium Pharmaceuticals, Inc.	4 pages

Total Number of Pages (9 pages)
(including this cover sheet)

TO/SB/97 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PTO/SB/98 (09-04)

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Millennium Pharmaceuticals, Inc.Application No./Patent No.: 7,052,888 Filed/Issue Date: May 30, 2006Entitled: 58919, A NOVEL HUMAN ACYLTRANSFERASE AND USES THEREOFMillennium Pharmaceuticals, Inc., a Delaware corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

In the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 014089, Frame 0826, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
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☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Janice M. Klunder
Signature

December 1, 2009

Date

Janice M. Klunder

Printed or Typed Name

617-551-3699

Telephone Number

Senior Patent Counsel

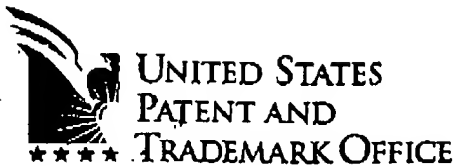
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

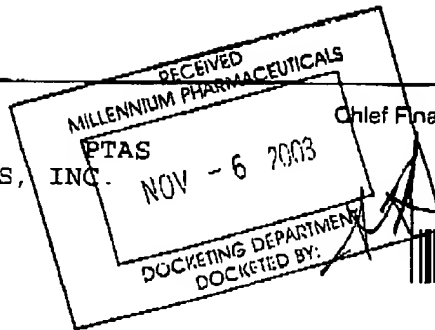
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343 PIR



OCTOBER 31, 2003

MILLENNIUM PHARMACEUTICALS, INC.
KERRI POLLARD SCHRAY
75 SIDNEY STREET
CAMBRIDGE, MA 02139Chief Financial Officer and Chief Administrative Officer
Washington, DC 20231
www.uspto.gov

102456363A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/22/2003

REEL/FRAME: 014089/0826
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KAPELLER-LIBERMANN, ROSANA

DOC DATE: 04/18/2003

ASSIGNOR:

LOGAN, THOMAS JOSEPH

DOC DATE: 05/02/2003

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
75 SIDNEY STREET
CAMBRIDGE, MASSACHUSETTS 02139SERIAL NUMBER: 09935290
PATENT NUMBER:FILING DATE: 08/21/2001
ISSUE DATE:MARCUS KIRK, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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05-27-2003

FORM PTO-1595
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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102456363

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the enclosed original documents or copy thereof.

1. Name of conveying party(ies): 5-22-03

Rosana Kapeller-Libermann Execution Date: April 18, 2003

Thomas Joseph Logan Execution Date: May 2, 2003

Additional name(s) of conveying parties attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

2. Name and address of receiving party (ies):

Name: Millennium Pharmaceuticals, Inc.

Internal Address: _____

Street Address: 75 Sidney StreetCity: Cambridge State: MA Zip: 02139Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/935,290

B. Patent No.(s)

Additional Numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kerri Pollard SchrayInternal Address: Millennium Pharmaceuticals, Inc.Street Address: 75 Sidney StreetCity: Cambridge State: MA ZIP: 021396. Total number of applications and patents involved 17. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

501668

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kerri Pollard Schray Reg. No. 47,066
Name of Person SigningK. Pollard Schray
SignatureMay 20, 2003
DateTotal number of pages including cover sheet, attachments, and document: 6Mail documents to be recorded with required cover sheet information to:
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Practitioner's Docket No. MPI00-343P1RM

PATENT

For: U.S. and Foreign Rights
For: U.S. Application
By: Inventors

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS:

Rosana Kapeller-Libermann
86 Beacon Street
Chestnut Hill, Massachusetts 02467
Nationality: Brazil

Thomas Joseph Logan
651 Old Schoolhouse Drive
Springfield, PA 19064
Nationality: United States

hereby sell, assign and transfer to

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
75 Sidney Street
Cambridge, MA 02139
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

56919, A NOVEL HUMAN ACYLTRANSFERASE AND USES THEREOF

and which is found in (37 C.F.R. section 3.21) U.S. Application Serial No. 09/935,290 filed August 21, 2001, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international

Practitioner's Docket No. MPI00-343P1RM**DEC 01 2009**

agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

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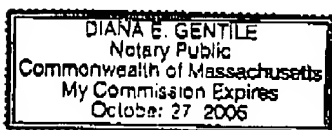
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Practitioner's Docket No. MPI00-343P1RMIN WITNESS WHEREOF, I have hereunto set hand and seal this 18 day of
April 2003.
Signature of Rosana Kapeller-Libermann

NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts
County of Middlesex

Before me this 18th day of April 2003, personally appeared the above named **Rosana Kapeller-Libermann**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.


Signature of Notary Public
Diana E. Gentile
Print Name
My Commission expires: October 27, 2006

(Page 3 of 4)

Practitioner's Docket No. MPI00-343P1RM

IN WITNESS WHEREOF, I have hereunto set hand and seal this 7th day of
May 2003.

Thomas Joseph Logan

Signature of Thomas Joseph Logan

Samuel M. Tolson

Witness

215 W. Walnut Lane, Phila. PA 19144

Address

Robert M. Miller

Witness

1360 Chase Road, Newton PA 18940

Address

(Page 4 of 4)